

10/538,998 YONG CHU 6-12-2006

\$%^STN;HighlightOn=;HighlightOff=;

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FILE 'REGISTRY' ENTERED AT 12:56:37 ON 12 JUN 2006
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STRUCTURE FILE UPDATES: 11 JUN 2006 HIGHEST RN 887399-72-6
DICTIONARY FILE UPDATES: 11 JUN 2006 HIGHEST RN 887399-72-6

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

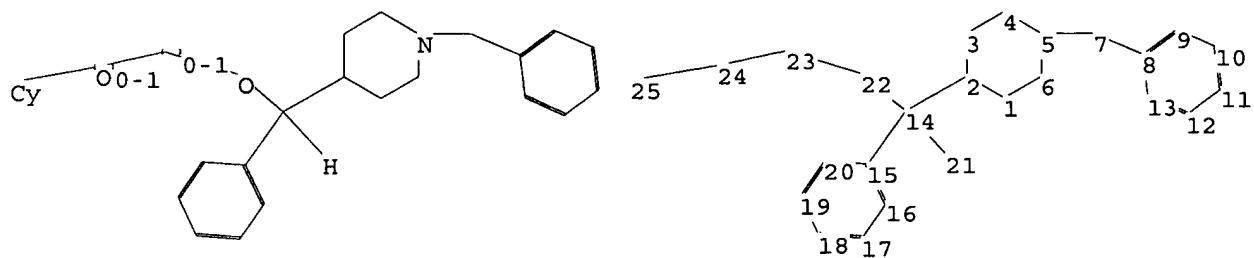
*
* The CA roles and document type information have been removed from
* the IDE default display format and the ED field has been added,
* effective March 20, 2005. A new display format, IDERL, is now
* available and contains the CA role and document type information.
*

Structure search iteration limits have been increased. See **HELP SLIMITS** for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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Uploading C:\Program Files\Stnexp\Queries\10538998\10538998f.str
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chain nodes :

7 14 21 22 23 24 25

ring nodes :

1 2 3 4 5 6 8 9 10 11 12 13 15 16 17 18 19 20

chain bonds :

2-14 5-7 7-8 14-15 14-21 14-22 22-23 23-24 24-25

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 15-16 15-20
16-17 17-18 18-19 19-20

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 14-22 22-23 23-24 24-25

exact bonds :

2-14 7-8 14-15 14-21

normalized bonds :

8-9 8-13 9-10 10-11 11-12 12-13 15-16 15-20 16-17 17-18 18-19 19-20

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:Atom

Generic attributes :

25:

Saturation : Unsaturated

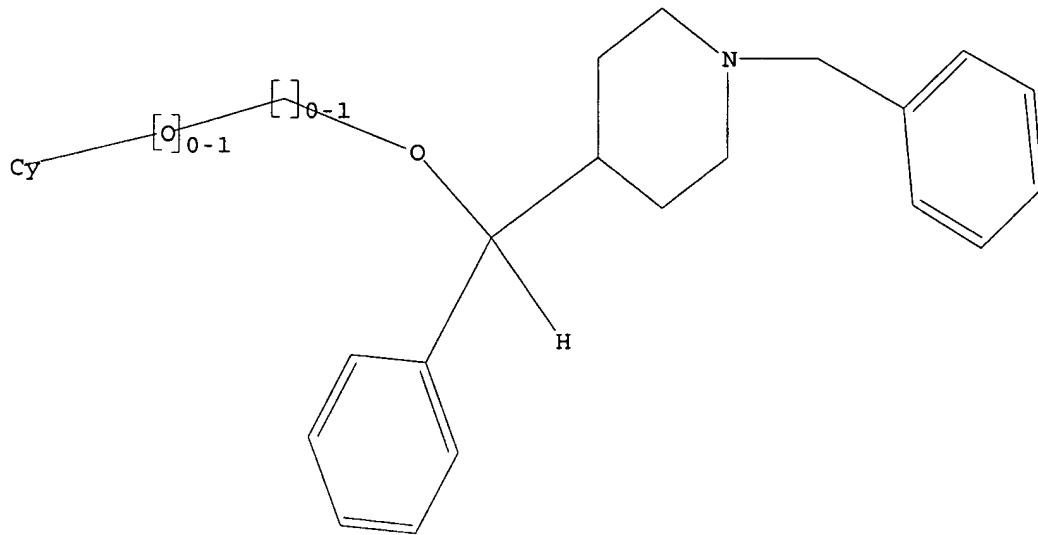
Number of Carbon Atoms : less than 7

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 12:56:59 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 771 TO ITERATE

100.0% PROCESSED 771 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 13755 TO 17085
PROJECTED ANSWERS: 3 TO 163

L2 3 SEA SSS SAM L1

=> s 11 full
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FULL SCREEN SEARCH COMPLETED - 15300 TO ITERATE

100.0% PROCESSED 15300 ITERATIONS 25 ANSWERS
SEARCH TIME: 00.00.01

L3 25 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
                           ENTRY SESSION
FULL ESTIMATED COST 166.94 167.15

FILE 'CAPLUS' ENTERED AT 12:57:12 ON 12 JUN 2006
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FILE COVERS 1907 - 12 Jun 2006 VOL 144 ISS 25
FILE LAST UPDATED: 11 Jun 2006 (20060611/ED)

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L4          3 L3
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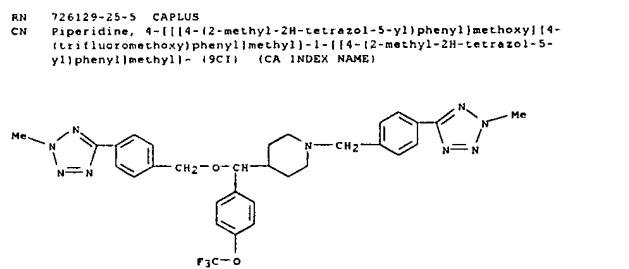
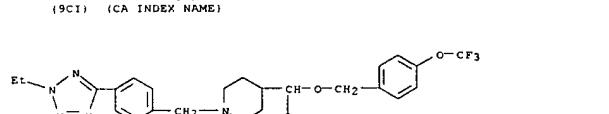
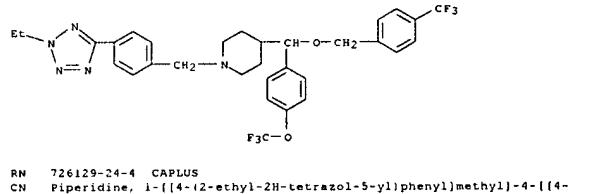
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:589417 CAPLUS
 DOCUMENT NUMBER: 141:140320
 TITLE: A preparation of insecticidal piperidine and pyridine derivatives
 INVENTOR(S): Ding, Ping; Henrie, Robert H.; II; Cohen, Daniel H.; Lyga, John W.; Rosen, David S.; Theodoridis, George; Zhang, Qun; Yeager, Walter H.; Donovan, Stephen F.; Zhang, Steven Shunxiang; Shulman, Inna; Yu, Seong Jae; Wang, Guozhi; Zhang, Y. Larry; Gopalsamy, Ariamala; Warkentin, Dennis L.; Rensner, Paul E.; Silverman, Ian
 PATENT ASSIGNEE(S): R. Cullen, Thomas G.
 SOURCE: PCT Int. Appl., 182 pp.
 CODEN: PXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
 WO 2004060371 A1 20040722 WO 2003-US38878 20031208
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MM, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 AU 2003296308 A1 20040729 AU 2003-296308 20031208
 EP 1572207 A1 20050914 EP 2003-814662 20031208
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 BR 2003017324 A 20051116 BR 2003-17324 20031208
 CN 1729178 A 20060201 CN 2003-80106750 20031208
 CN 1744895 A 20060308 CN 2003-80109445 20031208
 PRIORITY APPLN. INFO.: US 2002-434718P P 20021218
 US 2003-495059P P 20030814
 WO 2003-US38878 W 20031208

OTHER SOURCE(S): MARPAT 141:140320
 G1

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
 AB The invention relates to a preparation of insecticidal piperidine and pyridine derivs. of formula I (wherein: A is C or CH; B is substituted phenyl; C is

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



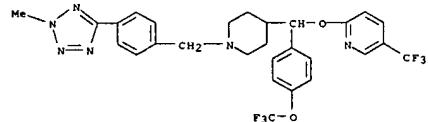
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 CN Benzoic acid, 4-(trifluoromethyl)-, [1-[(4-(2-ethyl-2H-tetrazol-5-yl)phenyl)methyl]-4-piperidinyl][4-(trifluoromethoxy)phenyl]methyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 00-1; D is (CH2)10-3; E is a bridging group selected from [CR9R10]-[CR11R12]10-10, C3H6, C1O, or C(S)NH, etc.; R1 is H, alkyl, alkoxyalkyl, or aryl; R2, R3, R4, R5, and R6 are independently selected from H, halogen, (halo/hydroxy)alkyl, alkylthio, CN, or NO2, etc.; R7 is (halo/hydroxy)alkoxy/dialkylaminolalkyl, sulfonatoalkyl, arylalkyl, or arylcarbonyl, etc.; R8 is H, (cyclo)alkyl, alkoxy, amino, morpholinyl, or indolyl, etc.; R9, R10, R11, and R12 are independently selected from H, alkyl, aryl, etc.]. Prep'd. compds. were evaluated for activity against tobacco budworm in a surface-treated diet test. For instance, piperidine deriv. II (compd. 101, insecticidal activity: 100% mortality, 100% growth inhibition) was prep'd. via elimination reaction of hydroxymethylpiperidine deriv. III, N-benzylation of the obtained methylene piperidine deriv. IV by 4-nitrophenylmethyl bromide, subsequent redn. of the nitro-group, N-carboxylation of the obtained amine V, and N-oxidn. (example 1).

IT 726127-41-9 726129-23-3P 726129-24-4P
 726129-25-5P 726129-26-6P 726129-27-7P
 726129-92-6P 726129-94-8P 726129-95-9P
 726129-97-1P 726129-98-2P 726129-99-3P
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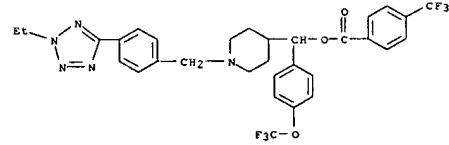
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation);

USES (Uses)
 (preparation of insecticidal piperidine and pyridine derivs.)
 RN 726127-41-9 CAPLUS
 CN Pyridine, 2-[[1-[(4-(2-methyl-2H-tetrazol-5-yl)phenyl)methyl]-4-piperidinyl][4-(trifluoromethoxy)phenyl]methoxy]-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

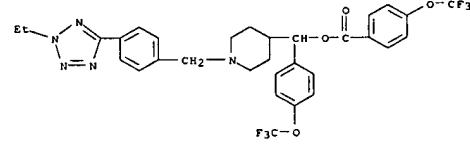


RN 726129-23-3 CAPLUS
 CN Piperidine, 1-[(4-(2-ethyl-2H-tetrazol-5-yl)phenyl)methyl]-4-[(4-(trifluoromethoxy)phenyl)[(4-(trifluoromethoxy)phenyl)methoxy]methyl]- (9CI) (CA INDEX NAME)

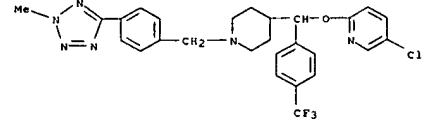
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



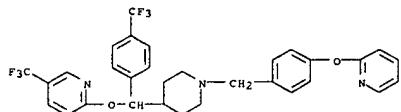
RN 726129-27-7 CAPLUS
 CN Benzoic acid, 4-(trifluoromethoxy)-, [1-[(4-(2-ethyl-2H-tetrazol-5-yl)phenyl)methyl]-4-piperidinyl][4-(trifluoromethoxy)phenyl]methyl ester (9CI) (CA INDEX NAME)



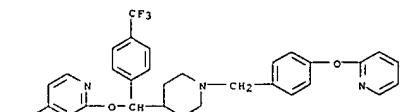
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 CN Pyridine, 5-chloro-2-[[1-[(4-(2-methyl-2H-tetrazol-5-yl)phenyl)methyl]-4-piperidinyl][4-(trifluoromethyl)phenyl]methoxy]- (9CI) (CA INDEX NAME)



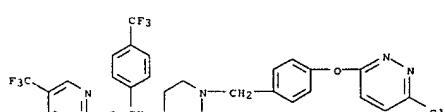
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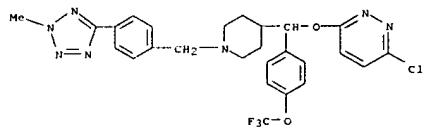
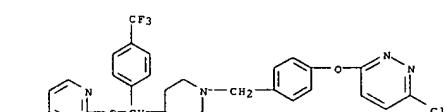
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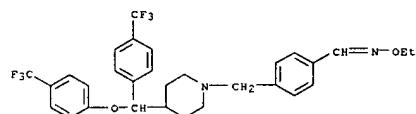
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 CN Pyridazine, 3-chloro-6-[(4-[(4-(trifluoromethyl)phenyl){(5-(trifluoromethyl)-2-pyridinyloxy)methyl}-1-piperidinyl]methyl]phenoxy- (9CI) (CA INDEX NAME)



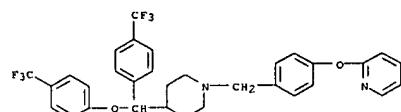
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 CN Pyridazine, 3-chloro-6-[(4-[(4-(trifluoromethyl)phenyl){(4-(trifluoromethyl)-2-pyridinyloxy)methyl}-1-piperidinyl]methyl]phenoxy- (9CI) (CA INDEX NAME)



RN 726130-10-5 CAPLUS
 CN Benzaldehyde, 4-[(4-[(4-(trifluoromethyl)phenoxy){(4-(trifluoromethyl)phenyl)methyl}-1-piperidinyl]methyl)-, O-ethyloxime (9CI) (CA INDEX NAME)

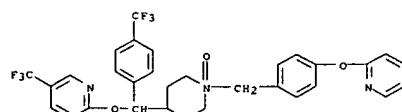


RN 726130-11-6 CAPLUS
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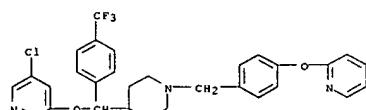


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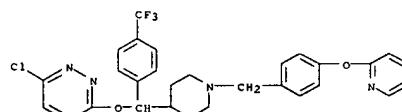
RN 726129-99-3 CAPLUS
 CN Pyridine, 2-[(1-oxido-1-[(4-(2-pyridinyloxy)phenyl)methyl]-4-piperidinyl)[4-(trifluoromethyl)phenyl]methoxy]-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)



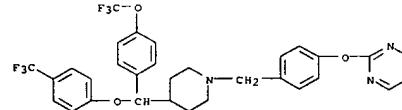
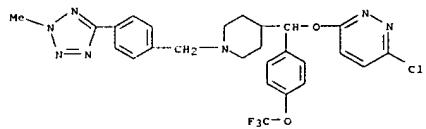
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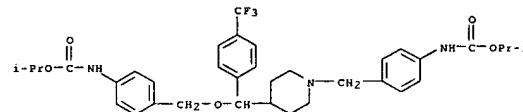
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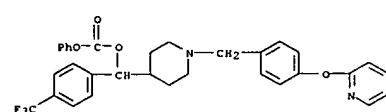
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 CN Pyridazine, 3-chloro-6-[(1-[(4-(2-methyl-2H-tetrazol-5-yl)phenyl)methyl]-4-piperidinyl)[4-(trifluoromethoxy)phenyl]methoxy]- (9CI) (CA INDEX NAME)



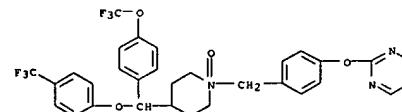
RN 726130-13-8 CAPLUS
 CN Carbamic acid, [4-[(4-[(1-methylethoxy)carbonyl]amino)phenyl]methoxy]-[4-(trifluoromethyl)phenyl]methyl-1-piperidinylmethyl]phenyl)-, 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 726132-15-6 CAPLUS
 CN Carbonic acid, phenyl [1-[(4-(2-pyridinyloxy)phenyl)methyl]-4-piperidinyl][4-(trifluoromethyl)phenyl]methyl ester (9CI) (CA INDEX NAME)



RN 726133-18-2 CAPLUS
 CN Pyrimidine, 2-[(1-oxido-4-[(4-(trifluoromethoxy)phenyl)methyl]-1-piperidinyl)methyl]phenoxy- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 6-acetylquinoline, m. 75-6° (picrate, m. 242°). A Beckmann rearrangement of XII oxime gives 6-amino-1,2,3,4-tetrahydroquinoline, m. 95.5-6°. Na redn. of Quinaldine in MeOH gives 93% 1,2,3,4-tetrahydroquinoline, acetylated with Ac2O to the 1-Ac deriv..

b12 153°, yellow crystals, m. 57°; which, treated with ClCH2COCl in CS2, then slowly with AlCl3, and let stand 2 days yields 6-(chloroacetyl)-1,2,3,4-tetrahydroquinoline-HCl, white crystals, m. 225-6°, converted by neutralization with dil. alkali to the free quinaldine, yellow crystals, m. 121°, which is dechlorinated in 80% HCl with Fe and 2N HCl to 6-acetyl-1,2,3,4-tetrahydroquinoline, m. 69°. The following 1,2,3,4-tetrahydroquinolines are prep'd. in good yield by hydrogenating 5 g. of the appropriate I in 50 mL MeOH at room temp. and pressure in the presence of Raney Ni, warming, filtering, washing the Ni with warm MeOH, evapg. to a small vol., and recrystg.: 6-benzoyl (XIII), yellowish crystals, m. 113° [1-OH deriv., m. 119-20°]; 1-Bz deriv., m. 131° [from 50% AcOH]; 1-Ac deriv., m. 97° [from dil. alc.]; 6-benzoyl-8-Me, pale yellow needles, m. 118°; 6-(p-chlorobenzoyl)tetrahydroquinoline, m. 156° [1-OH deriv., m. 173-4°]; 6-(p-chlorobenzoyl), m. 153°. The Meerwein-Ponndorf redn. of I to III is carried out in nearly 100% yield by adding 10 g. of the I in 30 mL iso-PrOH to (iso-PrO)3Al (made by refluxing 2.5 g. Al paste 10 h. with

0.125 g. HgCl2 in 50 mL abs. iso-PrOH), slowly distg. the Me2CO formed, alkalinizing, steam-distg. the iso-PrOH, adding boiling H2O to the residue, and crystg. from dil. alc. Thus are prep'd. the following carbinols: phenyl(6-quinolyl) (XIV), m. 127-8° [picrate, m. 190°; picrate of the acetate (ester), m. 188°]; phenyl(8-methyl-6-quinolyl) (XV), m. 133° [picrate, m. 202-3°; acetate (ester), m. 100° [from dil. alc.]; (p-chlorophenyl)(6-quinolyl), m. 153° [picrate, m. 186°; picrate of the acetate (ester), m. 205°]; (2,4-dichlorophenyl)(6-quinolyl), m. 161° [picrate, m. 225°; acetate (ester), m. 125-6°; picrate of the acetate, m. 212°]; X, (2, 5-dichlorophenyl)(6-quinolyl), m. 161° [acetate (ester), m. 174°]; (3,4-dichlorophenyl)(6-quinolyl), m. 189-90° [picrate of the acetate (ester), m. 195°]; Raney Ni hydrogenation of XIV gives 6-benzylquinoline, white crystals, m. 48-9°; similarly XV is reduced to 6-benzyl-8-methylquinoline, m. 55°. An attempted (iso-PrO)3Al redn. of XIII to the corresponding IV gives instead a white paste, m. 120-40°, sol. in C6H6 and CHCl3, slightly sol. in alc. 2-Benzoylquinoline is reduced by (iso-PrO)3Al in 100% yield to phenyl(2-quinolyl)carbinol (XVI), white crystals, m. 69° [from ligroine]; also obtained by Raney Ni hydrogenation at room pressure and temp. [picrate, yellow crystals, m. 138° [from alc.]], instead of to the tetrahydro deriv. Phenyl(1,2,3,4-tetrahydro-2-quinolyl)carbinol, b0.005 140° [1-OH deriv., yellow plates, m. 103° [from dil. alc.]]; N,O-di-Bz deriv., m. 161° [from ligroine], is prep'd. by reducing 2 g. 2-benzoylquinoline 1 h. in 300 g. MeOH with H at 70° and 50 atm. in the presence of Raney Ni, filtering, washing with MeOH, evapg. to a small vol., dilg. with H2O, adding Et2O, and vacuum-distg.

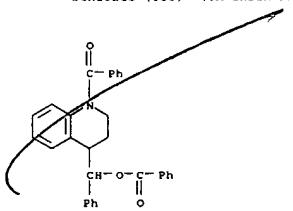
the oil. 4-Benzoylquinoline is reduced by (iso-PrO)3Al to phenyl(4-quinolyl)carbinol, m. 127° [from dil. alc.] (acetate (ester), white plates, m. 100°), and by Raney Ni hydrogenation at 100° and 70 atm. to phenyl(1,2,3,4-tetrahydro-4-quinolyl)carbinol, m. 135° [from dil. alc.], b0.001 110-15° [1-OH deriv., yellow leaves, m. 105° [from dil. alc.]; N,O-di-Bz deriv., m.

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 2-methyl-4-cyanoquinoline (XVII), white needles, m. 106°, and adding the Grignard reagent from 12 g. PhBr and 2 g. Mg in 30 mL Et2O to 5 g. XVII in 50 mL Et2O; XVII is reduced by (iso-Pr)3Al to phenyl(2-methyl-4-quinolyl)carbinol, colorless prisms, m. 167° [from dil. alc.] [acetate (ester), m. 103° [from dil. alc.]], and by Raney Ni hydrogenation at 100° and 70 atm. to phenyl(2-methyl-1,2,3,4-tetrahydro-4-quinolyl)carbinol, m. 162° [from dil. alc.], b0.001 130° [N,O-Bz deriv., m. 149° [from ligroine]]. Raney Ni redn. at room pressure and temp. of 8-benzoylquinoline gives at once phenyl(1,2,3,4-tetrahydro-8-quinolyl)carbinol, oil, b0.001 120° [1-OH deriv., yellow prisms, m. 146° [from alc.], (di-Bz deriv., m. 132° [from ligroine]]]. Nitration of 6 g. VI in 25 mL concd. H2SO4 with 1 mL nitrating mixt. (0.255 g. HNO3) added at -10°, followed by cooling with ice, filtering, neutralizing with NH4OH, and crystg. in alc., gives 6-(m-nitrobenzoyl)quinoline, yellow needles, m. 160°, which reduced by SnCl2 in alc. to the amino compd., yellow crystals, m. 142° [from H2O]. Similarly, VII is nitrated to 6-(m-nitrobenzoyl)-8-methylquinoline, m. 156°, which is reduced to the 3-amino compd., yellow crystals, m. 187° [from ligroine]. The (dichlorobenzoyl)quinolines cannot be nitrated.

IT 858473-25-3, 4-Quinolinemethanol, 1-benzoyl-1,2,3,4-tetrahydro- α -phenyl-, benzoate (preparation of)

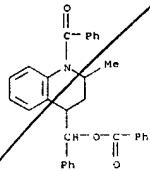
RN 858473-25-3 CAPLUS

CN 4-Quinolinemethanol, 1-benzoyl-1,2,3,4-tetrahydro- α -phenyl-, benzoate (5CI) (CA INDEX NAME)



RN 858473-28-6 CAPLUS
 CN 4-Quinolinemethanol, 1-benzoyl-1,2,3,4-tetrahydro-2-methyl- α -phenyl-, benzoate (5CI) (CA INDEX NAME)

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



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---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	15.79	182.94
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.25	-2.25

STN INTERNATIONAL LOGOFF AT 12:57:50 ON 12 JUN 2006